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Art Unit: 3682

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Attachment B-1
Claim Amendm nts

1. (Currently Amended) A hydraulic tensioner comprising a body having a cylindrical hole, and a hollow cup-shaped metallic cylinder fitted to said cylindrical hole formed in a body, said hollow cylinder having a bottom plate and an external diameter corresponding to the diameter of said cylindrical hole, and an internal diameter providing an interior wall around said hollow cylinder, a plunger provided within the cylinder, and so as to be energized by a compression spring within said internal diameter to engage said plunger and urge an outer end of the plunger to protrude the tip from the body, and the inner end of the plunger forming a pressure oil chamber formed within said interior wall between the inner part end of the plunger and the cylinder bottom plate,

said cylinder being provided with a bottom plate having a through-hole allowing the inflow of oil into the inner end of said pressure chamber, the outer end of said pressure chamber being closed by said plunger in the center, and the bottom plate being prevented from dropping out from the body by being engaged by said compression spring.

2. (Currently Amended) A hydraulic tensioner according to claim 1 wherein said cylindrical hole is of the body has a bottom at its inner end provided with a cylindrical an inlet hole smaller in diameter than this the diameter of said cylindrical hole on the bottom side, said through-hole of said cylinder registering with said inlet hole, and a check valve mechanism abutting the bottom plate of said cylinder, fitted to the minor-diameter cylindrical inlet hole to and prevented from dropping out by the abutment on the bottom plate of said cylinder.

3. (Currently Amended) A hydraulic tensioner comprising a metallic cylinder fitted to a cylindrical hole formed in a body, a plunger provided within the cylinder so as to be engaged by a compression spring to protrude the tip from the body, a pressure oil chamber formed between the inner part of the plunger and the cylinder, and according to claim 1 including an inflow hole in the bottom of said cylindrical hole of the body, and a check valve mechanism allowing the inflow of oil to the pressure oil chamber but arresting the back flow thereof, wherein

said cylinder is provided with a bottom plate having a through hole allowing the inflow of oil in the center, and the bottom plate being prevented from dropping out from the body by being energized by said compression spring;

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said check valve mechanism comprises comprising a check ball provided so as mounted to block an said inflow hole of oil to the pressure oil chamber from above and a spring for energizing the check ball; and

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said spring is being supported by said bottom plate.

4. (Currently Amended) A hydraulic tensioner according to claim 3, wherein said check valve mechanism further comprises a retainer supported by said bottom plate and having a top spaced from said bottom plate, said check ball and spring being held for supporting the spring and being a preliminary assembled product, and said lid is supported by between said top and said bottom plate.

5. (Currently Amended) A hydraulic tensioner comprising a metallic cylinder fitted to a cylindrical hole formed in a body, a plunger provided within the cylinder so as to be energized by a compression spring to protrude the tip from the body, a pressure oil chamber formed between the inner part of the plunger and the cylinder, and a check valve mechanism allowing the inflow of oil to the pressure oil chamber but arresting the back flow thereof, said cylinder being provided with a bottom plate having a through-hole allowing the inflow of oil in the center, the bottom plate being prevented from dropping out from the body by being engaged by said compression spring through the retainer of said check valve mechanism, and according to claim 3, said check valve mechanism comprising a check ball provided so as to mounted to engage in and block the through-hole formed in the bottom plate from above, a spring for energizing the check ball and a retainer mounted on said bottom plate for supporting the spring.

6. (Currently Amended) A hydraulic tensioner according to claim 1 wherein a ratchet pawl body to be engaged with a ratchet tooth is engraved in the outside surface of the plunger, and including a ratchet pawl pivoted is rockably provided on said body by spring energization and a spring biasing said pawl toward said ratchet tooth in order to prevent the backward displacement of the plunger,

a cutout in said hollow cylinder for rocking allowing the ratchet pawl body to engageably with the ratchet tooth, and a pair of protruding pieces having mount holes and extending outward from the cutout end are formed on said cylinder, and the ratchet pawl body is supported by a shaft inserted to in said mount holes formed in of the protruding pieces and a mount hole formed in the to pivotally mount said ratchet pawl body.

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7. (Currently Amended) A hydraulic tensioner according to claim 1, wherein said tensioner body is made by die-casting a die-cast product and said cylinder is made of steel-iron metallic.

8. (Currently Amended) A hydraulic tensioner according to claim 1, wherein said tensioner body is made by a molded synthetic resin molding and said cylinder is made of steel-iron metallic.